

Galactosylated hydroxyalkyl polysaccharides

Description of Technology: Galactosylated hydroxyalkyl polysaccharides wherein galactose moieties are bound to the hydroxyalkyl polysaccharide by galactosidic bonds, and a process for preparing the galactosylated hydroxyalkyl polysaccharides having the steps: a) providing at least one hydroxyalkyl polysaccharide; and b) treating said hydroxyalkyl polysaccharide with a galactose donor in the presence of galactosidase enzyme for a time sufficient to convert at least a portion of said hydroxyl groups to galactosides.

Patent Listing:

1. **US Patent No. 6,433,161**, Issued on August 13, 2002, “Galactosylated hydroxyalkyl polysaccharides”

<http://patft.uspto.gov/netacgi/nph-Parser?Sect1=PTO2&Sect2=HITOFF&p=1&u=%2Fnetacgi%2FPTO%2Fsearch-bool.html&r=1&f=G&l=50&co1=AND&d=PTXT&s1=6,433,161.PN.&OS=PN/6,433,161&RS=PN/6,433,161>

Market Potential: Hydroxyalkyl polysaccharides, particularly hydroxyalkyl cellulose or cellulose derivatives and hydroxyalkyl guar or guar derivatives, are widely used as rheology modifiers, thickening agents and a variety of other applications. Methods to modify these materials by galactosylation, i.e., conversion of hydroxyl groups to galactosides, have been sought in order to modify the properties of the hydroxyalkyl polysaccharides and improve their performance.

Benefits:

- Modify certain materials by galactosylation

Applications:

- Modify properties of the hydroxyalkyl polysaccharides and improve their performance

Contact:

Delaware Economic Development Office
Direct: (302) 577-8477, Fax: (302) 577-8499